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## **Puzzle time**

## **Digit detector. The answer**

You could be certain of the answer to this after 7 moves:

- 1. 3 digit number *any three digit number*
- 2. Odd number: so the last digit must be 1,3,5,7 or 9
- 3. Divisible by 5: so last digit must be 5 (as it is also odd.)
- 4. Each digit different:
- 5. Digits add up to 8: as the last digit is 5, the hundreds and tens must add up to 3. They could be 3 and 0 or 2 and 1.
- 6. Tens digit smaller than hundreds digit: so it must be 305 or 215.
- 7. Less than 300:

the number must be 215

You might have guessed the answer earlier, but you could not be absolutely certain until you had 7 pieces of information.

